

20000508.qrp v01_n815.qrl.20000508

Date: Mon, 8 May 2000 19:03:04 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1815

QRP-L Digest 1815

Topics covered in this issue include:

- 1) [69623] SMK - placing pin 1 on SOIC's
by Gary Slagel <gdslagel@yahoo.com>
- 2) [69624] Kits: New NorCal Kit Announcement
by "Doug Hendricks" <ki6ds@hotmail.com>
- 3) [69625] daily digest
by W8IRQ@aol.com
- 4) [69626] Re: OT: Linux Amateur Radio applications?
by Jim Lowman <jmlowman@ix.netcom.com>
- 5) [69627] The "German Quad"
by wb2vuo@juno.com
- 6) [69628] Re: Events: anyone heard Camp X?
by Earl Murphy <earlmurf@telusplanet.net>
- 7) [69629] HF6V add on 18/24 ???
by "Alan Dawkins" <alk0frp@home.com>
- 8) [69630] Re: Using full wave loops multiband ?
by Joseph Trombino Jr <joebarb@wilmington.net>
- 9) [69631] Sierra Power Mods?
by Patrick Armstrong <aa7fg@gte.net>
- 10) [69632] Re: Tubes/hollow state/glowbugs
by "baltimoremd@baltimoremd.com" <baltimoremd@baltimoremd.com>
- 11) [69633] new kit?? no announcment?
by Mighty Mik <mitymik@wenet.net>
- 12) [69634] Re: Using full wave loops multiband ?
by Marty <N5NW@midsouth.rr.com>
- 13) [69635] New Norcal Kit
by "Ron Giuntini" <rong@slip.net>
- 14) [69636] SMK photos
by "Mark Hogan" <mhogan@email.msn.com>
- 15) [69637] Re: New Norcal Kit
by "Gary Ingram" <kb7fci@cdsnet.net>
- 16) [69638] Re: SMK photos
by "Ron Giuntini" <rong@slip.net>
- 17) [69639] Fw: Details of NorCal Doublet Ribbon Cable Antenna
by "Ward Hill, N1IE" <w_hill@ns.net>
- 18) [69640] FS: G5RV
by john@neknetwork.com
- 19) [69641] Antennas: New NorCal Doublet Details

- by "Doug Hendricks" <ki6ds@hotmail.com>
- 20) [69642] G5RV sold
by john@neknetwork.com
- 21) [69643]
by Richard Wilkerson <richqrp@home.com>
- 22) [69644] SMK-1 first QSO
by n5ib@juno.com
- 23) [69645] Re: Antennas: New NorCal Doublet Details
by john@neknetwork.com
- 24) [69646] Re: Callbook query
by "Ron Smith" <resmith666@uswest.net>
- 25) [69647] NOR CAL Doublet Confusion?
by "Mike Duke" <k5xu@concentric.net>
- 26) [69648] SMK-1 Finished
by K5KW@aol.com
- 27) [69649] Dayton Hamvention Rooms
by Hank Kohl K8DD <k8dd@arrl.net>
- 28) [69650] Antennas: NorCal Doublet Confusion??
by "Doug Hendricks" <ki6ds@hotmail.com>
- 29) [69651] RE
by "Rich Wilkerson" <richqrp@home.com>
- 30) [69652] QRQ Net report.
by Ed Loranger <we6w@qsl.net>
- 31) [69653] WE6W Resonant Speaker built.
by Ed Loranger <we6w@qsl.net>
- 32) [69654] Re: WE6W Resonant Speaker built.
by Ed Loranger <we6w@qsl.net>
- 33) [69655] Re: SMK - placing pin 1 on SOIC's
by Dave Fifield <fifield@pacbell.net>
- 34) [69656] Red Hot Radio at Dayton Hamvention 2000/QRP ARCI FDI
by Dave Fifield <fifield@pacbell.net>
- 35) [69657] OT: 300-500 watt amplifier kit for Norcal 40A?
by joe lerch <jl@early.com>
- 36) [69658] Re: SMK-1 Finished
by David Hinerman <dlh1009@ritvax.isc.rit.edu>
- 37) [69659] SMK-1
by Wayne <walexan@ipa.net>
- 38) [69660] Re: Using full wave loops multiband ?
by "Bob Duckworth" <wb4mnf@atl.org>
- 39) [69661] Re: Antennas: NorCal Doublet Confusion??
by Hank <elly@epix.net>
- 40) [69662] 6M RADIOS: Old Icom vs. New MFJ 9604
by "Mark Adams" <k2qo@hotmail.com>
- 41) [69663] Re: Class E amp (was: 300-500 watt amplifier kit for Norcal 40A?)
by "Cla KA0GKC" <ka0gkc@arrl.net>
- 42) [69664] de SM / AA1MI / P (trip report, long)
by PGSPersEng@aol.com
- 43) [69665] Re: RW Beacon now on 166.5 kHz

- by Steve Yates <aa5tb@yahoo.com>
- 44) [69666] SMK-1 Help! (2 C-24 Positions?)
by ABCQRP <w6abc@yahoo.com>
- 45) [69667] Small HF amps
by n4so@juno.com
- 46) [69668] New NorCal Kit
by n4so@juno.com
- 47) [69669] FS: LDG QRP TUNER KIT
by "Bradfield, Brad V." <BBradfield@spectrapoint.com>
- 48) [69670] Thanks for help on the SMK C-24 location!
by ABCQRP <w6abc@yahoo.com>
- 49) [69671] Re: Class E amp
by "Paul Harden, NA5N" <na5n@rt66.com>
- 50) [69672] QRP-MAS Contest de qrpcc
by mike.mhe@t-online.de (Michael Haugrund)
- 51) [69673] Please need help/NC 20 keyer mod
by RangerSF5@aol.com
- 52) [69674] Smk-1 Cases ?
by rxd7@po.cwru.edu (Richard A. Dell)
- 53) [69675] Activating the U.S. border
by john@neknetwork.com
- 54) [69676] HP 1740A Scope Question..
by "Phinizy, William" <wphinizy@filenet.com>
- 55) [69677] Dayton Hamvention Vendors
by Michael Ostrowski <mostrowski@CreativeSolutions.com>
- 56) [69678] Kits: Picture of NorCal BLT Tuner designed by W6JJZ
by "Doug Hendricks" <ki6ds@hotmail.com>
- 57) [69679] Re: Sierra Power Mods?
by "Mike Branca" <w3irz@att.net>
- 58) [69680] QRP Boarder Cross
by "Davies, Doug A FOR:EX" <Doug.Davies@gems3.gov.bc.ca>
- 59) [69681] QRP Goodies For Sale
by "Cam Hartford" <camqrp@cyberg8t.com>
- 60) [69682] Re: Tubes/hollow state/glowbugs
by Rick McKee <kc8aon@juno.com>
- 61) [69683] G5RV & 10 meter question
by Rick McKee <kc8aon@juno.com>

Date: Sun, 7 May 2000 16:26:36 -0700 (PDT)
From: Gary Slagel <gdslagel@yahoo.com>
To: qrp-l@Lehigh.EDU
Subject: [69623] SMK - placing pin 1 on SOIC's
Message-ID: <20000507232636.20039.qmail@web215.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

I think I've got this figured out but wanted to run it by someone to make sure I don't put these things in backwards.

Identifying pin 1 was a little bit of a struggle but I think I've found either a dimple or a beveled edge on all three. But.... I'm not sure where I want to orient pin 1 on the board.

Each set of IC pads on the board has an angled indentation in the printing right where the IC is labeled (U1,U2,U3). I'm thinkin' if I orient the board with the angled indentation to the left, then pin 1 is the lower left pad. How's that sound?

```

      o o o o
      |       |
u1 >  |       |
      |       |
      o o o o
      |
    Pin 1?
```

Thanks in advance - Gary

=====

Gary Slagel/N0SXX
Conifer, CO 80433
gdslagel@yahoo.com
Personal Website: <http://marina.fortunecity.com/sanpedro/351>

Do You Yahoo!?

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<http://im.yahoo.com/>

Date: Sun, 07 May 2000 16:26:48 PDT
From: "Doug Hendricks" <ki6ds@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [69624] Kits: New NorCal Kit Announcement
Message-ID: <20000507232648.37497.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Guys, I just got back from another great NorCal meeting, where we introduced the new NorCal Kit, the NorCal "BLT" tuner, designed by Charlie Lofgren,

W6JJZ. Charlie is probably the number one man in the world when it comes to Z-Match Tuners, and he has designed this one for NorCal. It is packaged in a case made from PC board that just happens to be the exact same case that the NorCal SMK-1 fits in that is available from the NJ QRP Club. (Guess who is supplying the cases, grin.) The case parts are precut, but you have to do the drilling. Don't worry, a drilling template is provided.

The tuner tunes balanced feedlines, thus the name "BLT" for Balanced Line Tuner for the pneumonically challenged. Charlie originally designed the tuner to go with the SMK-1 and the NorCal Doublet for 40 meters, but when he delivered he design, we found it tuned other bands also. With the NorCal Doublet, it tunes 10 - 40 meters. We rate the tuner at 5 Watts, but it will probably be safe at 10 W. It comes with the N7VE LED SWR indicator built in, and is an absorptive bridge, so you won't fry the finals as you tune. Great design, by a great designer. All parts for the tuner are included, including the case. It uses polyvaricon caps. There is already a mod to convert it to endfed wire and coax. All you have to do is add one BNC and a SPDT switch, and you can use end fed wires and coax antennas. The connectors included are two 5 Way Binding Posts for the balanced feedline, and a BNC to connect to your rig.

To order the latest NorCal Kit, send a check for \$29, (\$25 for the kit, \$4 shipping and handling) to:

Doug Hendricks
862 Frank Ave.
Dos Palos, CA 93620

Please make check or money order out to Doug Hendricks, not NorCal. Also, please include a self addressed mailing label.

Note that shipping of these kits will begin on May 23rd.

One final note, if you would mark the envelope, NorCal Tuner Kit, it would be a big help. If you would like to see a picture of the prototype, go to:
<http://www.qsl.net/kk5ku/Mvc-428s.jpg>

Picture courtesy of Kelsey Mikel, KK5KU, most famous qrp'er in Ft. Smith.

Enjoy. 72, Doug, KI6DS

Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>

Date: Sun, 7 May 2000 19:29:40 EDT
From: W8IRQ@aol.com

To: qrp-1@lehigh.edu
Subject: [69625] daily digest
Message-ID: <a1.4f67c6c.26475664@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

For some reason, the method of my receiving the daily digest has changed. Previously, I had received the daily digest as archives. Now, I have to go thru a download to obtain the digest. What happened? Nick, W8IRQ

Date: Sun, 07 May 2000 16:31:41 -0700
From: Jim Lowman <jmlowman@ix.netcom.com>
To: paule@sfu.ca
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [69626] Re: OT: Linux Amateur Radio applications?
Message-ID: <3915FCDD.A45263E4@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Paul, there is also a ham-linux mailing list at: www.qth.net

72 de Jim - AD6CW

Paul Erickson wrote:

>
> I am a relatively new Linux user, (A happy one due to the recent "I love
> you"
> situation.) and was wondering if anyone could point me to some amateur
> radio related Linux applications?

> "Those who hear not the music, think the dancers mad..."

Date: Sun, 7 May 2000 19:22:47 -0400
From: wb2vuo@juno.com
To: qrp-1@lehigh.edu
Subject: [69627] The "German Quad"
Message-ID: <20000507.193342.-195663.5.wb2vuo@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

In the recent discussion of full-wave loops and harmonic antennae, the

"German Quad" was mentioned.

The first time I heard it discussed was in the late 60's, and a friend of mine, Terry, WB2RZL ran one over in East Syracuse, NY. His was run around the perimeter of the yard, and was fed with RG-58, a short 30 foot run.

Terry could load it on 80 - 15 Meters with his SB-34 and on 6 & 2 Meters with his AM rigs, Gonsets, I think.

He was a beacon on the old NY Post Office Net, now the NY Public Operations Net (1700 Local on 39313 or 3925 KHz, depending on QRM and band activity)...

The article was in 73 Magazine in mid 1968, and the author was a US serviceman stationed in West Germany. He said that it had been a popular antenna in the German amateur community for years at that time.

One thing you can say about a good idea, it just keeps resurfacing!

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<http://dl.www.juno.com/get/tagj>.

Date: Sun, 07 May 2000 17:50:25 -0500
From: Earl Murphy <earlmurf@telusplanet.net>
To: paule@sfu.ca
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [69628] Re: Events: anyone heard Camp X?
Message-ID: <3915F331.3916@telusplanet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Yes Paul,

Worked VC3CX this afternoon on 14.138...good sig here in Alberta, and they are offering a QSL card for the special event station comemorating the WWII Spy training station. QSL manager is VE3TIG. Good luck...

72....Earl (VA6RF)

Date: Sun, 7 May 2000 17:49:36 -0600
From: "Alan Dawkins" <alk0frp@home.com>

To: <qrp-1@lehigh.edu>
Subject: [69629] HF6V add on 18/24 ???
Message-ID: <000301bfb87e\$e724c540\$ef280f18@cc633484-a.aurora1.co.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Any one have the 18/24 mhz add on for the Butternut HF6v .

What value of the ceramic capacitor in each of the

tuned stubs ??? I have the demensions but not the value of the cap.

I will use this HF6v on Field Day as a backup antenna after monobanders and dipoles.

I want to try it after FD as a antenna for 18/24 ???

Al K0FRP

Date: Sun, 07 May 2000 20:03:26 -0400
From: Joseph Trombino Jr <joebarb@wilmington.net>
To: kc8aon@juno.com
Cc: QRP-L@LEHIGH.EDU
Subject: [69630] Re: Using full wave loops multiband ?
Message-ID: <3.0.6.32.20000507200326.0098e7c0@wilmington.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 02:52 PM 5/7/00 EDT, you wrote:

>Gang,

>

> In several publications it is mentioned about the use of full wave
> loops as multiband antennas both on it's fundamental frequency and it's
> odd and even harmonic frequencies. It is noted that the SWR rarely goes
> above a 3:1 when coax fed with 50 ohm coax. Has anyone on the list
> varified this ? And, how well did it perform both on it's fundamental
> frequencies and it's harmonics ? Also, which configuration did you use,
> ie: quad (4 sided) or delta (3 sided) loop ? I've been thinking of
> putting up a 40 meter loop and was wondering what to expect.

-----snip-----

Rick: I built a delta loop for 40M and had it suspended with the apex pointing down between two 60 foot pine trees. Guess the bottom of the antenna was about 10 feet above the ground. I installed a 4:1 balun at the apex feedpoint and fed that with coax into the shack. I had to use a balun since I didn't have a good means of feeding balanced ladder line into the shack.

It proved to be an excellent all around multi-band antenna. Measured SWR on 40, 20, 15 and 10M was under 2:1 without a tuner. With a tuner it loaded the WARC bands as well.

I worked a bunch of DX with this antenna, even before the sunspots started acting up. It is an easy antenna to play with and performs really well.

72, Joe W2KJ (North Carolina)

Date: Sun, 07 May 2000 17:50:26 -0700
From: Patrick Armstrong <aa7fg@gte.net>
To: qrp-1@Lehigh.EDU
Subject: [69631] Sierra Power Mods?
Message-ID: <39160F52.F9D46444@gte.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I just purchased a Wilderness Sierra from another ham and I am very pleased with it! I am using an SGC-237 antenna coupler, which requires 3W to match my hidden dipole under eaves of the roof. I received some info from another ham on this reflector which calls for an RCA SK9618 transistor along with a 4:1 transformer. I am looking for comments from others on attempts to modify the Sierra to the 5W level and methods used. Also, can anyone suggest a vendor where I might procure the above mentioned RCA device? Thanks for all the help!

Pat, AA7FG - Oregon...

Date: Sun, 7 May 2000 20:53:49 -0400 (EDT)
From: "baltimoremd@baltimoremd.com" <baltimoremd@baltimoremd.com>
To: Gary Lee Phillips <ka9nzi@arrl.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [69632] Re: Tubes/hollow state/glowbugs
Message-ID: <Pine.BSI.4.05L.10005072052230.5296-1000000@vh1.min.net>

MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 7 May 2000, Gary Lee Phillips wrote:

> HT-17 (25 watts, crystal controlled, 4 bands, 6V6/807 tubes)
> or the HT-18 (5 watts, VFO, 5 bands, 6BA6/6L6 tubes) if

I wish I still had my ht-18 ... but I can tell you from the "cards and letters" from OO's, that it's very rich in harmonics...

thom

../
baltimoremd@baltimoremd.com Thom LaCosta K3HRN Webmaster

<http://www.baltimoremd.com/> Baltimore's Home Page
<http://www.baltimorehon.com> Home of the Baltimore Lexicon
<http://www.min.net/~thom/> Home of the Drake Mailing List

Date: Sun, 07 May 2000 17:56:42 -0700
From: Mighty Mik <mitymik@wenet.net>
To: "qrp-l@Lehigh.EDU" <qrp-l@Lehigh.EDU>
Subject: [69633] new kit?? no announcement?
Message-ID: <391610C1.E2CA9114@wenet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

wait...Sunday came and went...QRP-L digest came...read it...and nothing about the new kit today??

ok...so what is it?

Date: Sun, 07 May 2000 20:03:52 -0500
From: Marty <N5NW@midsouth.rr.com>
To: qrp-l@lehigh.edu
Subject: [69634] Re: Using full wave loops multiband ?
Message-ID: <p24chs82cib8dri8eq1s1grukm4li4a2df@4ax.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: quoted-printable

On Sun, 7 May 2000 14:52:51 EDT, Rick McKee <kc8aon@juno.com> wrote:

>Gang,

>

> In several publications it is mentioned about the use of full wave
> loops as multiband antennas both on it's fundamental frequency and it's
> odd and even harmonic frequencies. It is noted that the SWR rarely goes
> above a 3:1 when coax fed with 50 ohm coax. Has anyone on the list
> varified this ? And, how well did it perform both on it's fundamental
> frequencies and it's harmonics ? Also, which configuration did you use,
> ie: quad (4 sided) or delta (3 sided) loop ? I've been thinking of
> putting up a 40 meter loop and was wondering what to expect.

Don't forget to consider the age of the publication you're looking at. =
In the
tube era, there was a circuit (the output tank circuit) that had two big
variable caps (tune and load). Sound familiar? It should, because it =
acted
as an antenna tuner. You matched the load, and could probably match =
anything
from 25-150 ohms.

So when someone says "all bands without a tuner" make sure they are using
equipment similar to that you intend to use.

Having said that, there's no reason not to put a tuner inline. The =
full-wave
loop has a fundamental design impedance around 100 ohms (if I recall
correctly), although this will vary with ground and elevation. It is =
more
efficient than a typical (shorter) antenna, so it becomes more "antenna =
tuner
friendly." N4DD, N4ROA, and myself used an 800 ft. loop at last year's =
QRPTTF
on the TN/VA/NC border and got the second highest score overall in an =
all-band
effort. We used a tuner and ladder line to feed it.

--

Marty, N5NW

-----=

Lakeland (Memphis), Tennessee
<http://marty.w.tripod.com/>
N5NW@midssouth.rr.com

=

Date: Sun, 7 May 2000 18:30:24 -0700
From: "Ron Giuntini" <rong@slip.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [69635] New Norcal Kit
Message-ID: <000701bfb88c\$fcdbde9a0\$5710b9d8@rongiuntini>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I checked out the new tuner kit from Norcal...More fun for us all. Thanks to those responsible for providing us all with the grist for our mills. I did not quite see any leds on the jpg...Will wait to see how we know it is minimum swr. Now, I seem to have missed the Norcal doublet. Can someone enlighten me as to that antenna? I am in need of a 40m wire antenna right now, and would like to see it.
Ron KB6GK

Date: Sun, 7 May 2000 20:32:50 -0500
From: "Mark Hogan" <mhogan@email.msn.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [69636] SMK photos
Message-ID: <00fc01bfb88d\$537158e0\$8fd8193f@compaq>

Well here is my SMK, I'll get better at this web stuff some day.

<http://msnhomepages.talkcity.com/StudioRow/n5obc/next.html>

Date: Sun, 7 May 2000 18:46:51 -0700
From: "Gary Ingram" <kb7fci@cdsnet.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, <rong@slip.net>
Subject: [69637] Re: New Norcal Kit
Message-ID: <000601bfb88f\$48d02d60\$d93820d0@gary>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I would like to know about the Norcal Doublet.. I missed it also.

Thanks and 72,

Gary Ingram
Merlin, Oregon

<http://home.cdsnet.net/~kb7fci/>

-----Original Message-----

From: Ron Giuntini <rong@slip.net>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Date: Sunday, May 07, 2000 6:32 PM

Subject: New Norcal Kit

>. Now, I seem to have missed the Norcal doublet. Can someone
>enlighten me as to that antenna? I am in need of a 40m wire antenna right
>now, and would like to see it.

>Ron KB6GK

>

>

Date: Sun, 7 May 2000 18:50:31 -0700

From: "Ron Giuntini" <rong@slip.net>

To: <mhogan@email.msn.com>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [69638] Re: SMK photos

Message-ID: <000801bfb88f\$cc20d0c0\$5710b9d8@rongiuntini>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Gee...it DID include a case, and we didn't know it!!!!!!!

----- Original Message -----

From: Mark Hogan <mhogan@email.msn.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: Sunday, May 07, 2000 6:32 PM

Subject: SMK photos

| Well here is my SMK, I'll get better at this web stuff some day.

|

| <http://msnhomepages.talkcity.com/StudioRow/n5obc/next.html>

|

|

|
|

Date: Sun, 7 May 2000 18:53:45 -0700
From: "Ward Hill, N1IE" <w_hill@ns.net>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [69639] Fw: Details of NorCal Doublet Ribbon Cable Antenna
Message-ID: <001801bfb890\$40d70ce0\$4d0f9fcf@0zpu5>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----

From: "Doug Hendricks" <ki6ds@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, February 07, 2000 11:40 AM
Subject: Details of NorCal Doublet Ribbon Cable Antenna

> Several have requested details of how I use computer ribbon cable as a
> feedline. I will attempt to answer it here.
>
> The antenna is made from a 50 ft. long piece of standard gray computer
> ribbon cable. First I separate two of the conductors from the main piece.
> Next I measure 26 ft. and mark with a pen or marker. Then, I take a small
> fishing snap swivel, put a nylon cable tie through the the eye of the
> swivel, and then tighten it around the two strands of computer cable at
the
> 26 ft. mark. Then, I split the 26 ft. section of cable into single
strands,
> and I am finished. I have a "NorCal Ribbon Cable Doublet" with two legs,
> 26' long, and fed with 24 feet of 2 conductor ribbon cable as a feedline.
I
> feed it to my ZM-2 tuner, and am able to operate 10-40 meters. The brass
> snap swivel acts as a center support. I use a SD-20 Fiberglass fishing
pole
> as a support. This antenna works very well with that setup, as it is so
> light. Every other feedline that I have tried bends the top section of
the
> fiberglass pole over much too far for my taste. (i.e. I am afraid it will
> break, grin.) I have not tried the twisted wires that Ed suggested, but I
> would imagine that they would work just fine.
>

> You may order 100 ft. reels of computer ribbon cable from Mouser. A
100ft.
> reel of 10 conductor ribbon cable is \$13.95. Mouser part # 517-3365/10.
> That would make 20 NorCal Doublet antennas!! at a cost of about 70 cents
> each. Buy a reel, make several and give them away to your friends if you
> like the antenna.
>
> Ed Loranger also suggests that using 4 conductors of ribbon cable to make
> the antenna feedline works better (he tested it and got very good
results).
> To make this version, peel off 4 conductors 50' long, and mark at 26' as
> before. The only difference is that you will use only the outer two
> conductors as the legs of the dipole. Cut out the 26 ft. of the two inner
> conductors, but leave all 4 for the feedline. Use only the outer two
> conductors as feedline and legs of the dipole. The center two conductors
> are used only as spacers.
>
> Build the antenna, try it out, and report to the group how it works. Test
> it in a real world situation. It has worked very well for me and others
> have reported success with it. Remember, though, that this antenna is
> designed for portable, casual operation. It is designed to be very, very
> light for a reason. It has worked very well for me and satisfies my
criteria
> of light, cheap, simple, and goes up and down easily and quickly. 72,
Doug
>
> -----
> Get Your Private, Free Email at <http://www.hotmail.com>
>

Date: Sun, 07 May 2000 21:59:56 -0400
From: john@neknetwork.com
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [69640] FS: G5RV
Message-ID: <39161F9C.60148DE7@neknetwork.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Howdy folks,

I bought a full size (102 ft 10m-80m) G5RV with the intention of putting
it up this summer. However, today I converted my homemade coax fed dual
band 10/80 meter dipole into a three bander 10/20/80 and it works GREAT!
20m is just a wonderful band to be resonant on! Besides, I'm proud of
the tri-band dipole, it's my first antenna and I made it - the G5RV was

bought...

So, I have this brand new G5RV. The bag is opened, but that's it. The instructions are there, the insulators and balun are still in their sub-bag, the wire is still wrapped and tied as is the ladder line. It's brand new, with an open bag.

\$35 OBO gets it shipped to your door in the CONUS. DX send address and I'll figure out shipping.

--

John Wagner - john@neknetwork.com

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Date: Sun, 07 May 2000 19:09:23 PDT
From: "Doug Hendricks" <ki6ds@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [69641] Antennas: New NorCal Doublet Details
Message-ID: <20000508020924.92161.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Guys, several have asked about the details of the NorCal Doublet. You can make two versions. One uses 2 conductors of computer ribbon cable, the other uses 4 conductors. Take a 50 foot piece of either, and measure off 22 feet. Mark this with a pen. Take a #1 Brass Snap swivel, and thread a cable tie through the eye and around the 2 conductor version. Tighten the cable tie. Go to the end that is 22 feet from this point. Split the cable, winding up with two radiators or sides of your doublet that are 22 feet long, total length 44 feet. What you have here is an End Fed Zepp on 10 meters, but an antenna that will also tune well up through 40 meters. Cecil Moore, W6RCA, happens to have a very good article in the current issue of World Radio, (Worth subscribing to just for Richard Fisher's QRP Column). Jim Duffey, Dr. Megacycle, told me about this improvement at Ft. Smith, and he was correct as usual. The neat thing is that you get the same basic antenna pattern on all bands, 10 - 40.

If you are using 4 strands of cable, mark at 22 feet as before, and cut the inner two conductors. Carefully strip them out of the center towards the 22 foot end. Go back to the place where you cut the conductors and split the outer two conductors back about an inch or so. Fold the middle two conductors over the eye of the #1 swivel and secure with a cable tie. Tighten the cable tie. Run the outer two conductors through the eye, and

you are finished. In both cases you have a 28 ft. feedline, and a total of 44 feet of doublet (22 ft. per side). You may also make this antenna using other types of balanced feeder. Zip cord, 300 ohm twin lead, real ladderline, etc. It all works, and they all tune great with the new NorCal "BLT" tuner. Hope this helps. 72, Doug

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Date: Sun, 07 May 2000 22:38:50 -0400
From: john@neknetwork.com
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [69642] G5RV sold
Message-ID: <391628BA.B6667002@neknetwork.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

G5RV has been sold. 73,

John, KB1ENS

--

John Wagner - john@neknetwork.com
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Date: Sun, 7 May 2000 19:38:14 -0700
From: Richard Wilkerson <richqrp@home.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Message-ID: <01BFB85B.CA2ACAC0@cx55215-a.elcjin1.sdca.home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable

Hello, I know I am cheap, but could someone please look a call up for =
me, JE3WUK, QSB was real bad this was just a little while ago on 15. =
Thanks... Rich / WD6FDD

Date: Sun, 07 May 2000 22:38:58 EDT
From: n5ib@juno.com

To: qrp-1@Lehigh.edu
Subject: [69644] SMK-1 first QSO
Message-ID: <20000507.213622.7871.3.N5IB@juno.com>

First QSO with SMK-1: N4SO, Ken, in Mobile AL. At 250 mW and 183 miles that's 732 mpw.

There has to be something illegal about this much fun.

72
Jim N5IB

YOU'RE PAYING TOO MUCH FOR THE INTERNET!
Juno now offers FREE Internet Access!
Try it today - there's no risk! For your FREE software, visit:
<http://dl.www.juno.com/get/tagj>.

Date: Sun, 07 May 2000 22:48:29 -0400
From: john@neknetwork.com
To: ki6ds@hotmail.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [69645] Re: Antennas: New NorCal Doublet Details
Message-ID: <39162AFD.F871CB99@neknetwork.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Doug (or anyone),

This sounds like a neat antenna, but I just can't visualize the 4 conductor version, sorry - mental block on my part. Is there a drawing or picture somewhere? Thanks es 73,

John, KB1ENS

Doug Hendricks wrote:

>

> Guys, several have asked about the details of the NorCal Doublet. You can
> make two versions. One uses 2 conductors of computer ribbon cable, the
> other uses 4 conductors. Take a 50 foot piece of either, and measure off 22
> feet. Mark this with a pen. Take a #1 Brass Snap swivel, and thread a
> cable tie through the eye and around the 2 conductor version. Tighten the
> cable tie. Go to the end that is 22 feet from this point. Split the cable,
> winding up with two radiators or sides of your doublet that are 22 feet

> long, total length 44 feet. What you have here is an End Fed Zepp on 10
> meters, but an antenna that will also tune well up through 40 meters. Cecil
> Moore, W6RCA, happens to have a very good article in the current issue of
> World Radio, (Worth subscribing to just for Richard Fisher's QRP Column).
> Jim Duffey, Dr. Megacycle, told me about this improvement at Ft. Smith, and
> he was correct as usual. The neat thing is that you get the same basic
> antenna pattern on all bands, 10 - 40.
>
> If you are using 4 strands of cable, mark at 22 feet as before, and cut the
> inner two conductors. Carefully strip them out of the center towards the 22
> foot end. Go back to the place where you cut the conductors and split the
> outer two conductors back about an inch or so. Fold the middle two
> conductors over the eye of the #1 swivel and secure with a cable tie.
> Tighten the cable tie. Run the outer two conductors through the eye, and
> you are finished. In both cases you have a 28 ft. feedline, and a total of
> 44 feet of doublet (22 ft. per side). You may also make this antenna using
> other types of balanced feeder. Zip cord, 300 ohm twin lead, real
> ladderline, etc. It all works, and they all tune great with the new NorCal
> "BLT" tuner. Hope this helps. 72, Doug
>
> -----
> Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>

--

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Network Administration

Date: Sun, 7 May 2000 20:57:12 -0600
From: "Ron Smith" <resmith666@uswest.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [69646] Re: Callbook query
Message-ID: <[0c6901bfb899\\$1dd88760\\$02000000a@uswest.net](mailto:0c6901bfb899$1dd88760$02000000a@uswest.net)>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Bud and the group...

> My wife, N7EID took her tech test in 1973 and was still listed as a tech
> and not a tech + until last week when she upgraded to General.

Presuming that your wife renewed her Tech license in 1983 and it was
returned as a Tech license -- the I can say that they started the

auto-switch to Tech Plus in late 1983 or early 1984. My wife renewed her Tech license in 1984 when we moved to Idaho and it was returned as a Tech Plus.

John, I would almost bet that your wife's 1988 renewal was a Tech Plus but prior renewals were Tech.

Regards to all...

73

Ron Smith - KD7VD - Boise, Idaho

Going that away...

Date: Sun, 7 May 2000 22:35:24 -0400
From: "Mike Duke" <k5xu@concentric.net>
To: "qrp" <qrp-l@lehigh.edu>
Subject: [69647] NOR CAL Doublet Confusion?
Message-ID: <00b501bfb896\$93cdb380\$28320140@k5xu>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Okay, I understand that we are basically building a 10 meter double extended zep. However, I am in possession of two messages describing this project. One says make each leg of the antenna 22 feet long, leaving 28 feet of feed line. The other message says use 26 feet of feedline, and the rest of the 50 foot roll, or 24 feet, for the antenna.

Now, which one is correct? Are the antenna legs 22 or 24 feet long?

Mike Duke

Date: Sun, 7 May 2000 23:42:01 EDT
From: K5KW@aol.com
To: qrp-l@lehigh.edu
Subject: [69648] SMK-1 Finished

Message-ID: <84.4ef9a9c.26479189@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

All,

For the past week I have been working up the courage to tackle building the little SMK-1 kit that arrived eight days ago. Been reading about folks' problems getting the receiver going. Kinda wanted to see some success stories, and they began to appear.

So, this weekend, fortified with lots of coffee and a "what the heck" attitude, I heated the soldering iron and commenced my first surface mount project ever. Didn't time myself. Figured if I went real slow, the chances of error would be less. Several lessons were learned, and that's what the project is really about.

First of all, it's true, tweezers *do* make a good launcher for surface mount parts.

Second, when a component that you have laid down turns up missing, first look on the underside of your forearm or the palm of your hand..they stick to you when you lean on them. So develop a game plan. When you put a part down for a moment, always put it in the same place and far enough behind the circuit board so you don't bump it or lean on it. Third, get a real small pointed tip on the iron when working with those little IC's. Fourth, buy the smallest diameter solder you can get; just a little solder is almost too much for some of the parts. Fifth, the size of the surface mount parts in the SMK-1 are really not that hard to work with..if you go slow. Confidence grows as you go.

In the end, no parts were lost. The project was spread over Saturday afternoon and Sunday afternoon. By supper time this evening, all parts were mounted and external wires soldered.

The moment of truth came right after supper, when I applied voltage. No smoke. Well, that's something...

Then I pressed the key, and was astonished to see a 350 mw reading on the WM-2 watt meter. Monitoring with the main station receiver, I heard a clear signal with good keying coming off that little SMK-1 board. After switching from a dummy load to the antenna, I hesitantly turned up the receiver gain control and.....heard signals!

A little tweaking, and by gosh there were some pretty strong signals coming in. One of them was K4HPP calling CQ. I zero beat his signal, nervously gave him a call with a hand key, and to my astonishment he came right back with a 579 report! Haven't figured the mileage, but I live about 40 miles south of Tulsa and K4HPP is in Memphis, TN. We had a solid QSO. Amazing. Later,

feeling bolder, I actually called CQ and was answered by K5RB in Dallas!
Dang! The little radio actually nabs QSO's!

Conclusion: If these old eyes that have 62 years on them (with mild cataracts) can build an SMK-1, then I believe most need have no fear of surface mount projects. My apprehension is gone.

Thanks Dave, for a great project. Thanks Doug, for being QRP U.S.A.'s number one cheerleader, and for pushing us ahead. The way the SMK-1 was kitted kept things sorted nicely..great idea! Also, thanks to those who kitted the parts, and to Jim Cates for handling the orders and shipping.

Now, a plea. Stop making new kits just long enough for me to build the K2.
<grin>

72,

Don, K5KW

"From Meadowlark Aerodrome on the rippling shores of Lake Eva, in the heart of the Morris-Boynton metroplex of east central Oklahoma, where every day is a sunny day".

Date: Mon, 08 May 2000 00:01:09 -0400
From: Hank Kohl K8DD <k8dd@arrl.net>
To: qrp-l@lehigh.edu
Subject: [69649] Dayton Hamvention Rooms
Message-ID: <4.3.1.2.20000507235044.00cc2460@mail.tir.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

<http://www.tir.com/~k8dd/dids.htm> has been updated tonight with the latest list of who have confirmed rooms at the Ramada Inn Dayton.

It is a "who's who" of QRP from the best QRP clubs in the world.

Ten days and counting.

73 Hank K8DD

*/ Hank Kohl K8DD k8dd@arrl.net
*/ ARRL TS <http://www.tir.com/~k8dd>
*/ MI-QRP - Vice Pres. QRP-ARCI - Director
*/
*/ Did you know you can email money with PayPal.com?
*/ Check this out:

*/ <https://secure.paypal.com/refer/pal=k8dd%40arrl.net>

Date: Sun, 07 May 2000 21:17:50 PDT
From: "Doug Hendricks" <ki6ds@hotmail.com>
To: k5xu@concentric.net
Cc: qrp-1@lehigh.edu
Subject: [69650] Antennas: NorCal Doublet Confusion??
Message-ID: <20000508041750.77657.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Mike, sorry about the confusion. The post that was copied to the net today about the length being 26 feet on the legs of the dipole was an old one, came from Feb. I believe. The antenna has been improved since then. Jim Duffey, KK5MC/6 and a hero to every one in qrp land (even though his daughters think that we are crazy to pay his airfare to hear him talk, grin.

Really girls, he is a qrp legend. And very, very famous. You should be really proud of your Dad.) was there at Fort Smith when I was building a demo NorCal Doublet. He suggested that I change the length of the legs of the Doublet from 26 to 22 feet so that I would then have an Extended Double Zepp on 10 meters. (I think I forgot to say "double" on the previous posting.) Anyway Mike, the antenna works better in my opinion with 22 feet as the measurement for each leg of the doublet. Ok??

What I am interested in is several of you building and testing this antenna.

Let me know how it works for you. Dave Gauding, NF0R was my inspiration in the first place, he is one of my qrp heroes with his antenna work, and his works great. So does mine. So does Dennis Foster's in Oklahoma. Build one, try it on the air, and let us know.

Oh, one more thing. You do need to use a tuner with the antenna. (That was the inspiration behind getting Charlie Lofgren to design the W6JJZ NorCal "BLT" Tuner.

72, Doug

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Date: Sun, 7 May 2000 21:29:14 -0700
From: "Rich Wilkerson" <richqrp@home.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [69651] RE

Message-ID: <002901bfb8a5\$f79c6640\$f5460418@elcjn1.sdca.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks to all for the info Like I said qsb was bad and I thought I really
had a problem when I copied the DUCK part of his name. Thanks again....
Rich / WD6FDD

Date: Sun, 07 May 2000 22:16:59 -0700
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateru Radio Discussion <qrp-1@lehigh.edu>
Subject: [69652] QRQ Net report.
Message-ID: <39164DCB.9E0C3D91@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

It was a great evening with not-so-great
signals on the band. QRN was tough but
propagation to N4SO in Florida was working :)
I tried to work Ken a couple of times but
our signal just can't reach him.

Here's the net check-ins:
WE6W/80 WPM (Ed)
K7TQ/35 WPM (Randy)
W6TH/ 65 WPM (Vito) <-- New check-in.
NW7DX/90 WPM best guess. (Ben)
N6JUG/65 WPM (New check-in, Jim, with 65 WPM
Character AND Word Speed!) What a fist.
NB6M/65 WPM (Welcome back Wayne).

We had WE6W, N6JUG, and W6TH using bug keys. W6TH
may have switched to a paddle after 35 WPM I think.
Ben shortened his Dit weighting on his keyer and
got to 90 WPM or so with the closer characters. Sounded
great. Randy was very clean at 35 WPM -- sailing along
nicely.

What is truly amazing was even veteran QRQ'ers like Vito and
Jim found the QRQ net a refreshing experience and much
more fun than it sounds on paper! Glad to have them
join us. Jim can actually send at the word speed on his

bugs -- sounds like a TTY signal!

I hope to have practice sentences out by Tuesday or Wednesday. I'm still trying to figure out the best way for 5-15 WPM'ers to go QRQ in a manner more efficient than straight QSO's. This is a tough one.

See you next week. (Sunday 7 PM Pacific on 7039 KHz)
<Monday, 0300Z UTC.>

-Ed "72"

--

72/Ed we6w; A-1 OP; SOC#63; QRPL#1068
<http://www.qsl.net/we6w> Santa Rosa, CA
My 2 pennies worth is just common cents.

Date: Sun, 07 May 2000 22:31:20 -0700
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>, maddog@io.com
Subject: [69653] WE6W Resonant Speaker built.
Message-ID: <39165128.EE8964F5@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang, I received permission to share this email I got recently. Monty built my speaker from posted plans he found in the QRP-L archives. How refreshing to read his story.

begin quote with my comments annotated:
Hi Ed!

I just finished building your resonant speaker design... What a great project! I found a 4" transparent plastic sphere in the local "Hobby Lobby" (kinda like Michaels). It is made in two mating halves, which press-fit tightly together, and have a little loop on one side (outside) for hanging. I think they are intended for crafting Christmas Ornaments. I cut the 2" hole and 3/4" hole (each in a separate half-sphere) using a hobby knife heated over my gas stove. I used PVC pipe for all the tubing, and epoxied the 8.5" and 6" pieces onto the sphere using 5-minute clear epoxy. The wood disk was a bear to fabricate; I used a rubber washer cut from a flat sink stopper (cutting it into a similar shape as the disk) and glued it to the disk, so I could get a little

more

"airtight" seal. I'm not sure it was worth the trouble. I used teflon tape (the kind for sealing pipe joints) wrapped around the plunger near the business end to effect a tight seal in the smaller tube... that worked very well. I'll have some pictures on my web site in about a week or two, as soon as I get them developed. The final unit is ugly as sin, but seems to work as described... I tuned it for about 600 Hz (not measured, guessing) which matches my mis-aligned TenTec Scout. All tuned, the inner tube's outer edge is flush with the outer edge of the big tube, and the plunger is recessed (outward) about 3/4" from the sphere surface. Does that sound reasonable? The plunger was a little difficult to tune: first, I was sure, then not-so-sure I had a null (using my ham receiver as a signal source). After the weekend, I'll take it into work where I have microphones and signal sources, and see if I can do better. Maybe I'll even take it over to the anechoic chamber to measure its response.

Questions:

1. I have a lot of local power-line hash here (which drives me crazy). The speaker seems to respond to the noise with lots of ringing. Sometimes, the ringing is so bad that I think I'm hearing a weak CW signal, only to discover it's just the QRN ringing. HI! Normal?

we6w Note:

> It is possible harmonics in the QRN can affect response. Reduce audio drive to eliminate this problem.

2. I noticed an interesting phenomenon... when tuning a signal up or down in frequency, when I get "close" (lets say, within 50-75 Hz), the signal in the resonant speaker "locks" at the resonant frequency. I first noticed this when copying a CW signal which I thought I had peaked. When I switched to the regular speaker to compare the QRN, I noticed that the tone was a teensy bit higher (but plenty enough to notice). I suspect this has to do with speaker/enclosure resonance, but do you have an explanation for that?

>Yes, the resonance causes this condition.

3. I noticed two peaks. Just measuring "ballpark" with my receiver's digital tuning, it appears there is a rather significant peak at or near 2f. Normal? Or did I tune something wrong?

>The design should not have this response. The rear sphere chamber may
>not be tuned properly. This happens when the combination of sphere
>frontal opening is not optimised with the speaker. Use a 1 inch diameter
>speaker in a 2 inch opening and be sure the rear plunger is tuned to
>null out a signal from 100 to 200 Hz above the desired signal.

4. When I build my web page showing pictures of my version of the speaker,
I'd like to credit you for the design. Is that OK? Also, would you mind
if I reprinted verbatim your e-mail description, as posted in QRP-L mail
list around 14 April, with your name attached, of course? Would I be
stepping on any toes if I dimensioned my photos, and described my
materials?

>Yes, it is my design and this will benefit others.

5. Is this design patented? Where can I learn more about the acoustics
of
resonant speakers? (I don't want to design, I'm just one of those
people
who likes knowing how things work).

>I passed on a patent cuz it was too costly and no money to be made. And
>I really wanted everyone to have one -- the spirit of Ham radio.

I love the design, and I had a wonderful time putting it together. My
hat
is off to you. I'm going to be using it with the SMK-1 (which is pretty
broad and could use the help)... man! that QRN just falls away when
that
speaker is placed online.

> Great news!

>Final Note on building the plug and plunger faces:

>I used 2 circular discs made from PC Board. Sandwich
>some packing foam in between these discs. The expanding
>foam holds the discs tightly in the pipe and is simple
>to fabricate. -Ed we6w

Thanks-a-million!

73,
monty N5FC

--

72/Ed we6w; A-1 OP; SOC#63; QRPL#1068
<http://www.qsl.net/we6w> Santa Rosa, CA
My 2 pennies worth is just common cents.

Date: Sun, 07 May 2000 22:34:41 -0700
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateru Radio Discussion <qrp-1@lehigh.edu>, maddog@io.com
Subject: [69654] Re: WE6W Resonant Speaker built.
Message-ID: <391651F1.2371CF37@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Oh, here's the webpage to be updated when Monty
has a chance to add photos of his WE6W speaker.

<http://www.io.com/~maddog/hamradio/index.html>

Sorry I missed adding this to my last post.
-Ed 72

--

72/Ed we6w; A-1 OP; SOC#63; QRPL#1068
<http://www.qsl.net/we6w> Santa Rosa, CA
My 2 pennies worth is just common cents.

Date: Mon, 08 May 2000 01:26:21 -0700
From: Dave Fifield <fifield@pacbell.net>
To: gdslagel@yahoo.com, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [69655] Re: SMK - placing pin 1 on SOIC's
Message-ID: <006101bfb8c8\$ec285760\$0100a8c0@pacbell.net>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit

Gary,

You have pin 1 correctly identified. We will add a pin 1
drawing like yours to the manual if we get time!

Cheers,
Dave Fifield, AD6A

----- Original Message -----

From: Gary Slagel <gdslagel@yahoo.com>
Subject: SMK - placing pin 1 on SOIC's

>
> Each set of IC pads on the board has an angled
> indentation in the printing right where the IC is
> labeled (U1,U2,U3). I'm thinkin' if I orient the
> board with the angled indentation to the left, then pin
> 1 is the lower left pad. How's that sound?
>
> o o o o
> | |
> u1 > |
> | |
> o o o o
> |
> Pin 1?
>
> Thanks in advance - Gary

Date: Mon, 08 May 2000 01:21:41 -0700
From: Dave Fifield <fifield@pacbell.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [69656] Red Hot Radio at Dayton Hamvention 2000/QRP ARCI FDI
Message-ID: <006001bfb8c8\$ebf5fcc0\$0100a8c0@pacbell.net>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit

Hi Folks,

Just a brief note to let you know that Red Hot Radio will be at Dayton this year on booth number 205 courtesy of Embedded Systems. We will have some booth help from a very prestigious QRP'er who will be stopping by the booth "for a rest" once in a while - make sure you stop on by to have a chance at winning a Red Hot Radio in our booth prize draw - winner will be notified by mail and the kit sent to them after the show.

Red Hot Radio will also have a table at the vendor's night at the QRP ARCI's FDIM vendor night - come along and see what we're doing.

See you all at FDIM and the Hamvention next week - should be a fantastic show this new millennium year!

Cheers es 72,
Dave Fifield, AD6A

Date: Mon, 8 May 2000 04:44:51 -0400
From: joe lerch <jl@early.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [69657] OT: 300-500 watt amplifier kit for Norcal 40A?
Message-ID: <00050804530001.00251@->
Content-Type: text/plain
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit

I was looking at various qrp related web sites via Google and ran accross a \$50.00 kit for building a 300-500 watt amplifier for a NorCal 40A, or any other qrp rig. Are there other kits such as this available? 300 - 500 watts seems like way too much power (30-50 would be better) .

<http://www.systems.caltech.edu/EE/Faculty/rutledge/poweramp.html>

thanks in advance,

joe

Date: Mon, 08 May 2000 07:33:23 -0400
From: David Hinerman <dlh1009@ritvax.isc.rit.edu>
To: qrp-l <qrp-l@Lehigh.EDU>
Subject: [69658] Re: SMK-1 Finished
Message-ID: <001401bfb8e1\$3ccf8a90\$2d0a05cc@rochester.com>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

> So, this weekend, fortified with lots of coffee and a "what the heck"

> attitude, I heated the soldering iron and commenced my first surface mount

<snip>

> Conclusion: If these old eyes that have 62 years on them (with mild
> cataracts) can build an SMK-1, then I believe most need have no fear of
> surface mount projects. My apprehension is gone.

Don,

FWIW, our surface-mount experts here at work recommend cutting back on coffee (or switching to decaf, but people boo at them when they say that) before a large hand-assembly job. I'm glad to hear it went well - especially that it powered up and worked the first time!

Guess I better get some wire in the air. Thanks for the report!

Dave

Date: Mon, 08 May 2000 06:51:22 -0500
From: Wayne <walexan@ipa.net>
To: qrp-1@Lehigh.EDU
Subject: [69659] SMK-1
Message-ID: <4.3.1.2.20000508064347.00a76a90@popd.ipa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"; format=flowed
Content-Transfer-Encoding: quoted-printable

Well I have number 342 up and running.
AT 11.75 volts it puts out about 135mw.
AT 13.8 volts it puts out about 325mw.
It was great to hear signals coming through the head phones.
I had soldered one Chip in backwards and discovered it before
I had applied power. After I got it turned around to the correct
place everything looked great, so I flipped the switch and no
Smoke. Called a friend on the phone and ask him to listen for me.
He lives about 10 to 15 miles from me and it was 20 over S9. He
wondered what I was using. It was a great kit to build and enjoyed it.
Thanks to all for the kit.
Have a nice day.
73,
Wayne
N=D8EA

Date: Mon, 8 May 2000 07:51:47 +0100
From: "Bob Duckworth" <wb4mnf@atl.org>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [69660] Re: Using full wave loops multiband ?
Message-ID: <200005081152.HAA25515@hat-trick.atl.org>

I have been using an unusual (because I never here any talk of it) full wave loop for the past 30 years. It works extremely well and is 'tuner friendly', very quiet, and gets out like all get out :-)

I'll describe the 80/40 version although a 40/20 or 30/15 works just as well.

It's a vertical plane loop. The VERTICAL sides are 1/8 wave (about 33'). The top and bottom are 3/8 wave (about 100'). It's fed 1/8 wave from a bottom corner with a piece of ladder line that is an odd multiple (electrical) of 1/4 wave on 40meters (30', or 90', I have not tried longer)

The antenna appears to have good low angle radiation on 80 and 40. As installed here the bottom wire is only about 10 ' off the ground. The feed line makes it look like low impedance at 2 wave length (40m for the 80m loop).

If any of you guys try it, please write and let me know how it works for you. I'd especially like to hear how a 160/80 version works out as there is no room for one here.

-bob
wb4mnf

BTW
It was inspired by a 10m antenna from one of the old (pre ww2) handbooks. The 10m antenna was actually a rotatable 20m loop with the VERTICAL elements 3/8 wave long on 20 and the horizontal elements 1/8 wave on 20. (Same dimensions as the 80/40 but turned on end)

Date: Mon, 08 May 2000 08:50:10 -0400
From: Hank <elly@epix.net>
To: qrp-1@Lehigh.EDU
Subject: [69661] Re: Antennas: NorCal Doublet Confusion??
Message-ID: <3916B801.D765B881@epix.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Where can I get info about the "BLT" tuner?

Hank K3PM

Date: Mon, 08 May 2000 10:05:40 EDT
From: "Mark Adams" <k2qo@hotmail.com>
To: qrp-1@lehigh.edu
Subject: [69662] 6M RADIOS: Old Icom vs. New MFJ 9604
Message-ID: <20000508140540.12274.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Hi Gang,

I have a few summer trips planned and would like to take along 6M. The Sierra and some wire may go too, but 6M will go for sure. I have the TenTec xverter, but that will stay in the shack, or maybe go for sale depending on the route I pick.

I have never seen the IC502, let alone use it. The Yaesu is too expensive. I have previously owned the MFJ 9420 20M SSB radio. In fact, I sold it to Bob Gobrick, God rest his soul. The MFJ was a nice radio, but the CW kinda stunk.

So here is the setup: 6M dipole made from old CB whips, a 2-el quad on a small fiberglass mast, gel cell, mini key, mini log and the Icom or the MFJ?

The places I will be /P from include the FL Gulf Coast, Adirondack mts, and Virginia Beach.

Which radio? Any of you guys have both?

TNX,
Mark Adams, K2Q0, ex-N2VPK

Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>

Date: Mon, 8 May 2000 10:04:38 -0500
From: "Cla KA0GKC" <ka0gkc@arrl.net>
To: <jl@early.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [69663] Re: Class E amp (was: 300-500 watt amplifier kit for Norcal 40A?)
Message-ID: <045f01bfb8fe\$d7e24f00\$02000000a@mcg.net>

From: "joe lerch" <jl@early.com>
| I was looking at various qrp related web sites via Google and ran accross a
| \$50.00 kit for building a 300-500 watt amplifier for a NorCal 40A, or any
| other qrp rig. Are there other kits such as this available? 300 - 500 watts
| seems like way too much power (30-50 would be better) .
|
| <http://www.systems.caltech.edu/EE/Faculty/rutledge/poweramp.html>

Careful, this is a bit misleading. This is a class E amplifier. The amp
itself is 50 bucks, but you need a keyed power supply and keying shaper
circuit as well. Best to read the QST article mentioned on the web site for
full details.

One thing I'd like to see and have been working on a little is a class E 5
watt amp. Has anyone else on the list looked into this?

73 de KA0GKC Claton Cadmus
ka0gkc@arrl.net
MNQRP #1
Minnesota QRP'ers we're looking for you!
Email me or visit this page <http://www.qsl.net/mnqrp>

Date: Mon, 8 May 2000 11:06:28 EDT
From: PGSPersEng@aol.com
To: QRP-L@lehigh.edu

Subject: [69664] de SM / AA1MI / P (trip report, long)
Message-ID: <38.5a13915.264831f4@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="UTF-8"
Content-Transfer-Encoding: quoted-printable
Content-Language: en

Hi gang,

On a recent business trip to Stockholm I had such a wonderful ham-radio=20
experience that I'd like to share it with the list. And if you ever have a=20
trip to that or any other country and would like to operate, you might find=20
some tips to try out.

With the new CEPT regulations, we no longer have to get a special license to=
=20
operate in many foreign countries, which makes it much more easier and=20
attractive trying to do some operating as the DX station for a change. I was=
=20
anxious to hear SM/AA1MI/P going out over the airwaves. But like many of you=
,=20
I find it difficult to operate from hotels. Let's not get into that=20
discussion.=20

Instead, I went web surfing, just looking around for clubs in the Stockholm=20
area. I found the website for SK0BU, the club at the Royal Institute of=20
Technology, about a 5-minute walk from my client's office on the=20
north/northeast side of town and also easily accessible by public=20
transportation. I later learned that all club calls get a "K" in the prefix.=
=20
(Interestingly, all repeaters must be associated with a club, and their=20
suffix typically starts with an "R".) I sent a blind e-mail to the station=20
manager, and I got a friendly reply from Mats, SM3LGO, who works as a=20
communications engineer at Ericsson. It seems that about half the club=20
members are alumni of the school.=20

Anyway, he wrote back that he'd try to find somebody to open up the station=20
for me. It ended up that he himself made time on a holiday: Monday, May 1 --=
=20
May Day, even though his pet dog had just had eight puppies, one of which ha=
s=20
a cleft palate and needs hand feeding. Although the campus was virtually=20
deserted because of the holiday and there are no dorms as we know them, it=20
turned out to be a perfect choice of days. Not only did I have the day off=20
from work, all the museums, tourist attractions everything else was closed,=20
as well. I would've spent the day just roaming around aimlessly without the=20
station visit.=20

And what a station! The shack is part of the main building, a beautiful=20
3-story brick structure that forms an interior courtyard. As an aside: One o=
f=20
the lecture halls has quite an elaborate early 20th Century style mural on=20
the ceiling, and the major visual image consists of two concentric circles o=
f=20
nudes: the outer circle are all men going in one direction (representing the=
=20
negative charges, said Mats) and the inner circle are females going in the=20
opposite (the positive charges). This mural was apparently on top of another=
=20
lecture hall before the building was renovated about 10 years ago, and the=20
Swedish government paid megakroner to have it shifted to sit on top of=20
another lecture hall.=20

Anyway, back to the building. On one corner is the campus' famous clock=20
tower: a turret with a copper hemisphere on top, and on top of that a big=20
Yagi plus feedline to a window (for 40 and 80). Mats met me outside the base=
=20
of that structure and we followed the winding stairs up to the top room wher=
e=20
the shack is. Actually, we later went up the last flight of stairs to the=20
level inside the copper dome. We hand-cranked down a 2 x 3-ft panel and got=20=
a=20
spectacular view of Stockholm. What's also neat is that the entire dome=20
rotates using the Armstrong method. No gears, pulleys or anything -- just a=20
rod you push to move the dome around so you can view in another direction.=20
And the dome's wheels haven't seen any grease lately, either. If you're=20
curious as to what antenna installation is like in this situation, you can=20
see some photos in a recent issue of the club newsletter, "Schma," which is=20
written in Swedish but has photos from a year ago during an antenna party=20
(www.users.wineasy.se/lt/Schma1-2000.pdf).

I desperately wanted to operate, but conditions on that day were pretty bad.=
=20
The A index was about 20 according to the DX cluster. I dropped the Icom rig=
=20
down to its minimum level of about 8W and got nothing. (Mats was quite amuse=
d=20
by our phrase "rice boxes.") Then I went QRO to near 100W and in the course=20
of about two hours was able to make four QSOs: G3YPZ, GB2SVL (on the=20
Sunderland Life Boat Station, pretty cool!) and then two USA (W2CFY and=20
K3K0). Lots of QSB even with this super antenna and QTH. Just my luck.

Perhaps it was better that way because I had plenty of time to chat with my=20
host. I told him all about our club back home (Port City ARC, W1WQM), and he=
=20
immediately logged onto the club's web site. Mostly we just traded=20

experiences. I asked him how US operators are viewed, and he responded very favorably saying that we're generally a polite, cooperative and knowledgeable bunch.

When I told him how we sometimes make light of the Cuban stations (whoop-do-whoop-do, whoop-whoop-do-whoop), he responded by saying that for them Cuba is rare DX (he's worked that country maybe six times in 20 years).

However, for the Scandinavians, Italian operators tend to have a very bad reputation. In fact, they kid each other that they'd like to install an "I" filter on their rigs.

It's customary in Europe on any such a visit to bring a small gift. Certainly, neither the traditional small bouquet of flowers nor box of candy was appropriate.

But I had an even better idea: I brought along my extra KniteSmite surface-mount kit, and it fit the bill perfectly as a small token of my appreciation.

Mats was really impressed at the stuff we do here in the US, especially in regard to surface mount. I told him about the upcoming Norcal projects.

Unfortunately, my SMK-1 arrived after I departed for Sweden or else I would have likely been tempted to take that along, too.

We also chatted about other clubs in the Stockholm area. About a mile away from the university is the Telegraphy Museum, which Mats said also has a ham station that visitors can use.

He then mentioned the Ericcson ham club, of which he's a member, and which is partly subsidized by that company. I asked if they get lots of new equipment.

He told me that the club buys every new piece of equipment as soon as it's available and that the Ericcson club shack looks like a showroom from HRO.

While on the topic last year they had to replace their Yagi -- and ended up getting one from HRO.

Even with import duty to make up for the country's 25% sales tax on everything, and even considering the shipping, it was half the price of what they'd pay locally.

And the UPS truck was there in three days to drop it off.

We covered so much material in my four hours at the shack that I could make this report go on and on. But the bottom line is that, thanks to the Internet, I was able to make a new friend who I hope to see again either here or there;

I had a chance to visit a fantastic QTH/ham shack and get views of

=20

a foreign capital that few if no other tourists ever do; and I also got to=20
try out a new call sign. If you've got a few spare hours during a trip=20
abroad, spend some time trying to set something like this up. It's one of=20
those experiences you'll remember for a lifetime.

Paul, SM / AA1MI / P

Date: Mon, 8 May 2000 10:13:00 -0700 (PDT)
From: Steve Yates <aa5tb@yahoo.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [69665] Re: RW Beacon now on 166.5 kHz
Message-ID: <20000508171300.21508.qmail@web3004.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

W0RW,

I have yet to receive your RT beacon but I thought you
may be interested in some recordings I have made of a
local (<30 miles) LowFER beacon and other longwave
signals. I tried listening for your beacon last night
and today and made these recordings of the "TEXAS
AGGIES" beacon of Bill Cantrell, WD5CVG this morning.
Check out the recordings at the following Web page:

<http://www.geocities.com/aa5tb/longwave.html#WWVB>

Thanks for putting the beacon on the air. I know how
difficult it is getting something up for the LowFER
band (160-190kHz). I'll keep listening.

=====

73,
Steve Yates - AA5TB
Fort Worth, TX - EM12gs
<http://www.geocities.com/aa5tb>
aa5tb@yahoo.com

Do You Yahoo!?

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<http://im.yahoo.com/>

Date: Mon, 8 May 2000 10:49:28 -0700 (PDT)
From: ABCQRP <w6abc@yahoo.com>
To: qrp-1@Lehigh.EDU
Subject: [69666] SMK-1 Help! (2 C-24 Positions?)
Message-ID: <20000508174928.29969.qmail@web2102.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Hi,
I just soldered the first C-24 (Item #4) a 390pf Cap.
Now I looked to the next item and find 3-470pf Caps to
be soldered in and one is also at C-24! Yikes! I
hope the one I put in is the correct Cap. Please tell
me what the correct position for the 470pf is. In
other words, which one goes into the C-24 position?
Soldering iron is still hot.
73,
Jack W6ABC

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<http://im.yahoo.com/>

Date: Mon, 8 May 2000 12:52:18 -0500
From: n4so@juno.com
To: qrp-1@Lehigh.edu
Subject: [69667] Small HF amps
Message-ID: <20000508.125226.-160999.15.N4SO@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

CCI Communication Concepts Inc. sells small
20 watt amps//AN779H AN779L
cci.dayton@pobox.com
www.communication-concepts.com
Advertises in QST mag p. 132 in March 2000.

Ken Brown, N4SO
Mobile, AL EM50tk
NorCal-20 at 5 watts
4 element yagi

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<http://dl.www.juno.com/get/tagj>.

Date: Mon, 8 May 2000 12:43:12 -0500
From: n4so@juno.com
To: qrp-1@Lehigh.edu
Subject: [69668] New NorCal Kit
Message-ID: <20000508.125226.-160999.13.N4S0@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Compare the pictures and article in The QRP Quarterly,
July 1998, The ZM-40-- A Tiny QRP Antenna Tuner for 40
Meters by Pete Hoover, W6ZH-- the design of the Z-match
was taken from W6JJZ's article in the ARRL Antenna Compendium
from 1996.

Ken Brown, N4S0
Mobile, AL EM50tk
NorCal-20 at 5 watts
4 element yagi

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<http://dl.www.juno.com/get/tagj>.

Date: Mon, 8 May 2000 13:12:11 -0500
From: "Bradfield, Brad V." <BBradfield@spectrapoint.com>
To: "'qrp-1@lehigh.edu'" <qrp-1@lehigh.edu>
Subject: [69669] FS: LDG QRP TUNER KIT
Message-ID: <8D9A3E0C6F42D1118EDC0060081D3FFA023D8AB2@ucusmail.spectrapoint.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

73,
Jack

Do You Yahoo!?

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<http://im.yahoo.com/>

Date: Mon, 8 May 2000 12:59:25 -0600 (MDT)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: Cla KA0GKC <ka0gkc@arrl.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [69671] Re: Class E amp
Message-ID: <Pine.SUN.4.10.10005081246160.29166-100000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 8 May 2000, Cla KA0GKC wrote:

> | <http://www.systems.caltech.edu/EE/Faculty/rutledge/poweramp.html>

I tried this today and could get in. The famous "Error 404" thing.

> One thing I'd like to see and have been working on a little is a class E 5
> watt amp. Has anyone else on the list looked into this?

I have been working on class E amps for QRP on and off for over a year, and pretty happy with the current design. Needs a little more lab testing and evaluation of the output low pass filter, since slamming a MOSFET on fully for short duration kinda skews the models of the output impedance.

My current scheme is in a QRP rig built for 30M. It uses a two-stage bandpass filter at 10.1 MHz from the output of the NE602 transmit mixer, which is about 400mVpp. This cleans up the unwanted images and makes a nice 10MHz sinewave of about 300mVpp. This is applied to one input of a high speed comparator; the other "reference" input goes to a pot for setting the reference voltage ... that is, where along the input sinewave the comparator switches. The output is a 6Vpp squarewave at 10.1MHz, whose duty cycle depends on the setting of the reference pot mentioned above. The square output of the comparator goes to a NPN-PNP totem pole emitter follower for a low impedance drive to the IRF510 MOSFET. A DRIVE control sets the base bias, which allows the output power to be varied from nothing to about 7W. The output of this NPN-PNP driver is terminated into a 200 ohm resistive load, and then directly to the IRF510 gate

through a stabilization (10 ohm) resistor. Thus, the drive on the gate is a virtual square wave, and the output on the drain of the IRF510 is also a near squarewave, between 0V and 30V. On the drain is a 1:4 balun transformer to raise the impedance to about 50 ohms, then on to a standard low pass filter.

The neat thing, to me, is how you convert a small 300mVpp RF from the NE602 mixer and make 5W with one active stage, the comparator, a 79 cent IC from Mouser. I have driven the IRF510 using this scheme up to 10M.

When a little more finalize, I'll get it published and up on someone's website.

72, Paul NA5N

Date: Mon, 8 May 2000 21:23:35 +0200
From: mike.mhe@t-online.de (Michael Haugrund)
To: qrp-l@lehigh.edu
Subject: [69672] QRP-MAS Contest de qrpcc
Message-ID: <12ot7v-0B09aqC@fwd07.sul.t-online.de>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8BIT

DJ7ST @ DB0ABZ.#NDS.DEU.EU (Hartmut)

The QRP-CONTEST-COMMUNITY (qrpcc)
c/o Dr.Hartmut Weber, DJ7ST
Schlesierweg 13
D-38228 SALZGITTER
Germany

May 7th, 2000

Dear YL&OM,

"IT IS VAIN TO DO WITH MORE, WHAT CAN BE DONE WITH LESS"

(William of Occam (1290-1350), philosopher/theologian, Oxford/Munich)

Did he foresee QRP?

The QRP-CONTEST-COMMUNITY invites you to take part in the

Q R P - M I N I M A L - A R T - S E S S I O N (qrp-mas)

Challenge: Contacts to be made with rigs as simple as possible
 and constructed of as few components as possible.

Date: June 1st, 2000 (Ascencion Day); 1900-2300 UTC

MODE: Single Op CW, Output < 5W or Input < 10W
BAND: 80m CW-Band
CALL: cq qrpmas

CLASS A: TX+RX resp. TRX consisting of not more than 100 components
CLASS B: TX: 50 components maximum, RX as you like

EXCHANGE: RST/Class and number of components, e.g.: 559/B25
 (feel free to exchange name and small talk... if condx permit)

QSO-Points: Any QSO will be counted 1 point.
 4 points will be counted for a QSO with a MAS-stn
 whose log has been received for checking.

BONUS-Points: You will get bonus-points in percentages if you stay below the
 limit of components permitted for your class
 (e.g. a 50% bonus will be added to your final score if you only
 use 25 components instead of max. 50 for your TX in class B
 or a 20% bonus for a TRX with 80 components).

REMARKS: Components will be the following:
 Resistors, capacitors, coils, diodes, transistors, tubes,
 crystals, ceramic resonators etc.. Any selective network in
 the TX output stage will be counted as if consisting of 3
 components. For a better suppression of harmonics you are free
 to use more (passive) components - they will not be counted.

 IC's are permitted as long as the user can give any proof
 (specification) of HOW MANY single components they may contain.
 (But of course you still may take part in Class B, if your TRX
 has too many ICs in its RX-section).

 Plugs, connectors, knobs, fastening material and similar
 hardware won't be counted. This also applies to power supply,
 headphones, speaker, key, antenna, casing etc.

LOGS: Must contain UTC, call of stn wkd, RST sent&rcvd (see EXCHANGE)
 Please give your callsign, full address and possibly MyBBS.

URGENT: A circuit diagram of rig/s) used with NUMBERED (=counted)
 components MUST be enclosed (and an IC specificationn if used)!

There is no absolute need to indicate kOhm, pF etc. or type.

DEADLINE: Within 2 weeks after qrp-mas.
TO: DJ7ST, Dr.Hartmut Weber, Schlesierweg 13, D-38228 SALZGITTER
(Logs via Packet-Radio to DJ7ST@DB0ABZ appreciated)

- - - - -

A list of suitable articles and circuit diagrams in QRP-Report (DL-QRP-AG), CQ-DL (DARC) and mainly SPRAT (each last 4 years issues) has been uploaded into packet <qrpdloe> some days before.

It will be followed by a <qrpeu>-version within the next days.

Maybe you like to rummage through old issues of QST, RadCom etc. yourself? Have fun -and please send me your list!

Too simple for you, but not unpleasant?

How about giving your point to the qrp-minimalists at Ascension Day?

"Simple -but not undemanding" you'll probably find when finally your rig is prepared for qrp-mas. Let's hear your minimal art!

73/2

"Hal", Hartmut, DJ7ST

(mailing done by df2ok)

Date: Mon, 8 May 2000 15:30:53 EDT
From: RangerSF5@aol.com
To: qrp-l@lehigh.edu
Subject: [69673] Please need help/NC 20 keyer mod
Message-ID: <6b.3f450d6.26486fed@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi Gang,

I just finished up the Larry East mods on a NC 20-M.

Now I want to get on the air but lost the paddels,(never did like them dual things).

OK

The manual says I can make up a special cable adapter so I can use a straight key or my MK-65-b-)Can someone explain this?)

THE SECOND OPTION IS TO WIRE ANOTHER JACK TO THE INPUT OF THE tick.

IS THIS THE dit & dah i SEE NEAR THE KEY JACK?

The 4 small holes near the key jack have been jumpered out and the small jumpers form a X.

If I clip the jumpers out and wire in my own 2 connector jack, do I run the wires to the DIT & DAH wires?.

Many thanks

Bob

WA2HOQrp <tm>

Date: Mon, 8 May 2000 15:36:33 -0400 (EDT)
From: rxd7@po.cwru.edu (Richard A. Dell)
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [69674] Smk-1 Cases ?
Message-ID: <v02130501b53c8e6cf32d@[129.22.116.87]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi gang,

Has anyone heard when the cases for the SMK will be delivered ? i
ordereed one the same time I ordered the Norcal SMP kit.

Thanks,

Dick, WD8ISB

Date: Mon, 08 May 2000 16:02:54 -0400
From: john@neknetwork.com
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [69675] Activating the U.S. border
Message-ID: <39171D6E.4D0C9C7B@neknetwork.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Folks,

I've been mulling this idea around for a while. It stems from the fact that I want to take my QRP rigs out and about and operate in the field, but my "free" time is pretty much taken up by my family. I really wanted to activate the VT section of the AT, but it's about a 2 hour drive south from here, so the drive down, setup and drive back would pretty much kill an entire day easy.

I do however live on a little dirt road that if followed runs into Canada abt 3/4 mile away. So the thought occurred to me; how about an operating event that would activate each state along the U.S./Canadian border, and each province on the Canadian side. If it would be possible to activate the US/Mexico border at the same time, that would be great too. The different classes could be something like "on border", within 10 km of border, 50 km of border, border state, and any other station. A multiplier for any Alaska QSO would be a cool idea to. I was thinking of putting together a web based sign-up thingy that would allow people to register where and when they would be operating. Maybe some kind of certificate could be made as well for "worked all border states and provinces."

We have a Border Amateur Radio Club here in VT, and I'm going to approach them with the idea, but I thought I'd solicit feedback from you folks first. I have absolutely ZERO experience organizing something like this, so if it's a dumb idea, that feedback would be appreciated as well. I think this may be a lot of fun!

73,

John, KB1ENS

--

John Wagner - john@neknetwork.com

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Date: Mon, 8 May 2000 13:05:39 -0700

From: "Phinizy, William" <wphinizy@filenet.com>

To: "'qrp-l@Lehigh.EDU'" <qrp-l@Lehigh.EDU>

Subject: [69676] HP 1740A Scope Question..

Message-ID: <C3AF5E329E21D2119C4C00805F6FF58F02BE5DB8@hq-expo2.filenet.com>

..I have a beautiful and immaculate HP 1740A 100 MHz scope I got at a swap meet for a great price. It has been in service for about a year and all of a sudden the B channel has gone south. The symptoms are:

- > no trace when B and B trigger is switched in.
- > no phase measurements between A and B are possible (obviously)
- > the beam find function *will* locate the "B" trace to the middle but the vertical POSN control does not move it. (the "A" control moves about 1 division)

I did order a manual and am going to go through it, but wonder if anyone might have experience with these and give me some hints (e.g., it's bigger than a bread box).

Thanks in advance.

Bill, K6WHP

Date: Mon, 8 May 2000 16:15:13 -0400
From: Michael Ostrowski <mostrowski@CreativeSolutions.com>
To: qrp-l@lehigh.edu
Subject: [69677] Dayton Hamvention Vendors
Message-ID: <C17F1AF032ECD21180C100A024BB8E2E01F5E2BC@bruiser.creativesol.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"

I'd like your help in compiling a list of "QRP friendly" vendors for the Dayton Hamvention.

If you are a vendor which will be exhibiting/selling QRP wares, or items which might be particularly interesting to us QRP folk, please send me a note at KI8IK@arrl.net which includes:

1. Vendor name (or call)
2. Booth # (if known)
3. General description of interesting items.

Even if you're not vending, but know of vendors/items the rest of us shouldn't miss please pass that info along also.

ANY vendor is game...

Clubs.

Kits.

Keys and keyers.

Used QRP gear.

Cheap PCB stock.

Workbench supplies.

Batteries/chargers.

Portable HF antennas.

QRP books.

Vendors with a good selection of QRP homebrew parts.

(you get the idea)

Please don't assume someone else has already submitted an

item. I'd rather get buried in duplicates than miss a great lead.

** I'll post the results to the QRP-L reflector on Tuesday, May 16 **

Of course this vendor list could never be complete. Hopefully it will help those who have a limited amount of browsing time find what they need, and point others in new directions.

72,
Mike

Michael Ostrowski - KI8IK
Saline, MI

NorCal === ARCI QRP #10255 === MI QRP #M-1693 === QRP-L #2170
KI8IK@arrl.net

Date: Mon, 08 May 2000 13:37:37 PDT
From: "Doug Hendricks" <ki6ds@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [69678] Kits: Picture of NorCal BLT Tuner designed by W6JJZ
Message-ID: <20000508203737.15315.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Guys, Kelsey Mikel (the most famous qrxper in Ft. Smith) has changed the location of the picture of the NorCal "BLT" Tuner prototype. Click on this URL to see a picture of it.

<http://www.alltel.net/~kmike/Mvc-428s.jpg>

Thanks for the picture Kelsey, and thanks for moving it so that it will be available due to the qsl.net problems. 72, Doug

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Date: Mon, 8 May 2000 15:37:59 -0500
From: "Mike Branca" <w3irz@att.net>
To: <aa7fg@gte.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [69679] Re: Sierra Power Mods?
Message-ID: <013f01bfb931\$bd3d23e0\$8e044d0c@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Pat, I don't think that is a good idea. A better solution would be to get an LDG auto tuner, they are very affordable and work down into the mw range. My Sierra is the Georgia homebrew version and my experience is that it is a 1 - 2 watt radio and it works great with the LDG tuner. The Sierra is designed as a 1 - 2 watt radio. From the posts that I have read and from my own experience I will say that trying to make a 2 watt radio put out 5 watts is fruitless without a spectrum analyzer. You may get more power but it is not the same RF that produces QSL cards. Only the DL SMT kit will do the job but I don't think it is available any more. I have done a number of power mods on QRP rigs but returned them to the original configuration after using the spectrum analyzer.

But I would love for you to prove me wrong so if you get an arrangement that works please post it.

Mike Branca W3IRZ Conyers, Georgia

----- Original Message -----

From: Patrick Armstrong <aa7fg@gte.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Sunday, May 07, 2000 7:50 PM
Subject: Sierra Power Mods?

> I just purchased a Wilderness Sierra from another ham and I am very
> pleased with it! I am using an SGC-237 antenna coupler, which requires
> 3W to match my hidden dipole under eaves of the roof. I received some
> info from another ham on this reflector which calls for an RCA SK9618
> transistor along with a 4:1 transformer. I am looking for comments from
> others on attempts to modify the Sierra to the 5W level and methods
> used. Also, can anyone suggest a vendor where I might procure the above
> mentioned RCA device? Thanks for all the help!

>
> Pat, AA7FG - Oregon...
>

Date: Mon, 08 May 2000 14:40:55 -0700

From: "Davies, Doug A FOR:EX" <Doug.Davies@gems3.gov.bc.ca>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [69680] QRP Boarder Cross
Message-ID: <60F1FEB31CA3D211A1B60008C7A45F430997FEBE@blaze.bcsc.GOV.BC.CA>
Content-return: allowed
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

I think the idea of a US-Canadian QRP event would be cool. I could set up shop at the Stewart, BC-Hyder, Alaska boarder but somehow I don't think 350 mW would be heard too well from there <grin>. The area is surrounded by 10,000 foot high mountains on three sides but I would have a great take-off angle due west, right on the headwaters of the Portland Canal !!

Doug VA7DD

Date: Mon, 8 May 2000 14:47:18 -0700
From: "Cam Hartford" <camqrp@cyberg8t.com>
To: <qrp-1@lehigh.edu>
Subject: [69681] QRP Goodies For Sale
Message-ID: <000301bfb937\$51a0dd60\$1847cbd1@cam>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Ladies and Gentlemen -

I'm posting these items for sale on behalf of my friend and fellow Zuni Loop founder Fred Turpin, K6MDJ, who is not on the Internet.

These are original Norcal kits, UNBUILT, looking for a warm home and an eager builder:

1) Norcal Sierra. This is from the original run of club kits, brushed aluminum box and all. Includes complete band modules for 80, 40, 30, 20 and 15, plus the circuit boards for 160, 17, 12 and 10.

2) Norcal 40A, also a pre-Wilderness club kit.

3) St. Louis Tuner.

4) 38 Special.

In addition, Fred has for sale a Kenwood TS-660, which is a QRP (10 W) Quad bander -- covers 15, 12, 10 and 6 Meters. It runs AM, FM, SB and CW.

Call Fred at (909) 338-4591 and make him an offer on whichever items you can't live without. Operators are standing by..

72/73,

Cam N6GA

Date: Sun, 7 May 2000 19:13:36 EDT
From: Rick McKee <kc8aon@juno.com>
To: qrp-l@Lehigh.EDU
Subject: [69682] Re: Tubes/hollow state/glowbugs
Message-ID: <20000508.175157.4423.1.kc8aon@juno.com>

Gang,

Funny this is mentioned, my planned winter project this year is to build a single tube transmitter for 40 & 80 meters - all from my junkbox and my buddy's "junk garage" ! Hum ' now where did I put those chassis punches ?

73...Rick McKee KC8AON { CW lives as long as I do ! }
Willow Wood, Ohio "oo's"
AR QRP # 269 QRP-L # 2112 ZOMBIE # 718 FPqrp # 33
TriState BrassPounders # 1

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<http://dl.www.juno.com/get/tagj>.

Date: Sun, 7 May 2000 19:38:15 EDT
From: Rick McKee <kc8aon@juno.com>
To: qrp-l@Lehigh.EDU

Subject: [69683] G5RV & 10 meter question
Message-ID: <20000508.175157.4423.2.kc8aon@juno.com>

A friend of mine installed a G5RV at his vacation cabin to use with his Yaesu FT-7 QRP rig. He has had good luck on all bands 15 thru 80 meters, but just can't seem to get it to tune on 10 meters. He has it mounted as an inverted V with the apex about 25' up and the ends about 15' off the ground and the coax connected directly to the 300 ohm twinlead (yeah, he used the cheap twinlead). Anyone have any ideas on why it won't tune on 10 meters ? Or any tricks to make it work on 10 ? Would it work better if he did away with the coax and ran the twinlead all the way to the balanced output of the tuner ? Would a balun of some sort at the junction of the coax and twinlead help any ? If so, would you use a 4:1 or a 1:1 balun ? I have used a G5RV myself and didn't have these problems with mine, but I used 450 ohm ladderline on mine and ferrite beads on the coax at the feedline junction.

73...Rick McKee KC8AON { CW lives as long as I do ! }
Willow Wood,Ohio "oo's"
AR QRP # 269 QRP-L # 2112 ZOMBIE # 718 FPqrp # 33
TriState BrassPounders # 1

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End of QRP-L Digest 1815

